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# *The* Florida Entomologist

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## HOMOPTERA OF FLORIDA

HERBERT OSBORN

The following list is an attempt to bring together all available data on the Homopteran fauna of Florida. The list published by Professor Barber<sup>(1)</sup> naturally forms the basis for any such effort and I have included the records there given with the authorities. I have, however, adopted the nomenclature and arrangement of Van Duzee's Catalogue in the main, as this will be for many years the most convenient means of comparison.

The numerous additions to the Barber list are largely due to active collecting by Professor C. J. Drake, whose summer captures in 1918 were turned over to me for study and a number are due to specimens submitted to me by Professor J. R. Watson of the Florida Experiment Station, while a few trace back to earlier collections by Professor H. A. Gossard. Initials of these gentlemen will indicate the source for the species entered as also for the many Gainesville records that appear. The Gainesville locality records have a special value since so large a part of the previous records have been from coastal localities and in many cases represent only winter collecting. The value of such a list is of course dependent on the accuracy of the identification and I have endeavored to verify all the previous records as well as to satisfy myself as to the identity of the species newly entered. In any comparison with other regions for the purpose of determining the source of the fauna or the recent introduction of new arrivals it is very clear that reliable records for the regions

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<sup>(1)</sup>In Bull. Am. Mus. Nat. Hist. Vol. 33, pp. 495-535 (1914).

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compared are essential. While many of the native species are important pests some of the worst enemies to agriculture are probably introductions. A prompt recognition of new arrivals may serve a very useful purpose in preventing or reducing their destructive increase or distribution.

Note. Collections made by the writer during the winter of 1921 at St. Petersburg, Tampa, Key West, Homestead, Miami, Delray, West Palm Beach, Canal Point, LaBelle, Ft. Myers, Manatee, Ruskin and Gainesville have extended the known range of a number of the species as well as adding a number not hitherto recognized in the state. The latter are marked with an asterisk—\*.

### SUB ORDER HOMOPTERA

#### CICADIDAE

- Tibicen biconica* Walk. Key West, June (Acad. Nat. Sci. Phil.) ; Key West (Uhler) ; "Florida" (Macgillivray).
- Tibicen bicosta* Walk. La Grange, Sept. (Davis) ; "Southern Florida" (Uhler) ; "Florida" (Macgillivray). Common in the state but restricted to the South.
- Tibicen linnei* (S. & G.) Gainesville (?) (C. J. D.)
- Tibicen pruinosa* Say (S. & G.) Gainesville (C. J. D.)
- Tibicen davisi* (Sm. and Gr.) Miami, Georgiana (U. S. N. M.) ; Miami, Jan. (Davis) ; Miami, Sept. (Acad. Nat. Sci. Phil.).
- Tibicen erratica* (Osborne) Pablo Beach, Sept., Big Pine Key, Sept. (Davis). Oviposits in cotton stems.
- Tibicen grossa* (Fab.) Ormond (Mrs. Slosson).
- Tibicen lyricen* (de Geer) Lake City (U. S. N. M.) ; "Florida" (Sm. and Gr.).
- Tibicen reperta* (Uhl.) "Florida" (Uhler).
- Tibicen sayi* (Sm. and Gr.) LaBelle, Apr. (Davis) ; "Florida" (U. S. N. M.).
- Tibicen sayi* var. *australis* (Davis). La Grange, Sept. (Davis).
- Tibicen similaris* (Sm. and Gr.) Fernandina (U. S. N. M.) ; Jacksonville, Sept., La Grange, Sept. (Davis).
- Tibicen viridifascia* (Walk.) (*sordidata* Uhl.) ; "Southern Florida". Oviposits in stems of Sea Oats (*Uniola*) and lives in tidal zone of shore line as observed in North Carolina. (See Osborn & Metcalf. Annals E. S. A., Vol. 13, p. 108.)
- Tibicen vitripennis* Say. "Florida" (Uhler).
- Tibicen hieroglyphica* Say. "Apparently common throughout the southern portion of Florida" (Van Duzee) ; Ormond (Mrs. Slosson) ; Lakeland, Mch., May, LaBelle, Apr., LaGrange, Sept. (Davis) ; St. Augustine (Johnson). Gainesville (C. J. D.)

*Melampsalta parvula* Say. Tampa (Van Duzee) ; Lakeland, May (Davis). North to Ohio, common.

## MEMBRACIDAE

*Ceresa stimulea* Van D. Estero (Van Duzee) ; Ormond, Jacksonville (Mrs. Slosson).

*Ceresa brevistylus* Van D. Crescent City, Sanford (Van Duzee and A. M. N. H.). "Flat woods," Gainesville, Aug. 25. (J. R. W.)

*Ceresa patruelis* Stal. "Florida" (Van Duzee).

*Stictocephala diminuta* Van D. Biscayne Bay (Mrs. Slosson).

*Stictocephala festina* Say. Crescent City, St. Petersburg (Van Duzee) ; Gainesville. (J. R. W.)

*Sticticephala lutea* Walk. Walton Co. (McAtee).

*Stictocephala substriata* Walk. Belleair, Jacksonville; Ormond, Atlantic Beach (Mrs. Slosson) ; Sanford, Miami, Titusville, Lakeland, Jacksonville, Crescent City, LaBelle, Ft. Myers, (A. M. N. H.) ; St. John's Bluff, E. Florida (Walker) ; Gainesville (C. J. D.).

*Acutalis inornata* Ball. Biscayne Bay (Mrs. Slosson).

*Acutalis tartarea* Say. "Taken at all stations" (Van Duzee) ; Atlantic Beach, Jacksonville, Ormond (Mrs. Slosson) ; Sanford, Crescent City (A. M. N. H.) ; Gainesville (C. J. D., J. R. W.).

*Acutalis tartarea* var. *semicrema* Say. St. Augustine (Johnson) ; Gainesville (C. J. D.).

*Micrutalis calva* Say. "Generally distributed in the State" (Van Duzee) ; Newberry (A. M. N. H.) ; Biscayne Bay, Belleair, Lake Worth, Ormond (Mrs. Slosson) ; Gainesville (J. R. W.).

*Telamona collina* Walk. St. John's Bluff, E. Florida (Walker).

*Telamona conica* Walk. St. John's Bluff, E. Florida (Walker).

*Telamona monticola* Fab. Seven Oaks (Van Duzee).

*Telamona praealta* Fowl. Tampa (Van Duzee).

*Telamona subfalcata* Van D. Belleair (Mrs. Slosson) ; Gainesville (C. J. D.).

*Archasia galeata* (Fab.) Estero (Van Duzee) ; Jacksonville (Mrs. Slosson) ; St. Augustine (Johnson) ; Gainesville, April (J. R. W.).

*Smilia camelus* (Fab.) Jacksonville (Mrs. Slosson) ; Gainesville, April (J. R. W.).

*Smilia fasciata* A. and S. Lake Worth, Jacksonville (Mrs. Slosson).

- Cyrtolobus ovatus* Van D. Sanford, Estero (Van Duzee) ; Marco, Apr. (A. M. N. H.).
- Cyrtolobus arcuatus* (Emm.) Ormond (Mrs. Slosson).
- Cyrtolobus fenestratus* (Fh.) Jacksonville (Mrs. Slosson) ; Gainesville (C. J. D.).
- Cyrtolobus sculptus* Fairm. Jacksonville (Mrs. Slosson).
- Cyrtolobus nitidus* Van D. Jacksonville (Mrs. Slosson).
- Cyrtolobus tuberosus* (Fairm.) Belleair (Mrs. Slosson).
- Cyrtolobus tumidus* (Walk.) St. John's Bluff, E. Florida (Walker).
- Cyrtolobus van* (Say). Belleair, Jacksonville (Mrs. Slosson).
- Cyrtolobus inermis* (Emm.) Jacksonville (Mrs. Slosson).
- Antianthe expansa* Germ. "Florida" (Van Duzee).
- Ophiderma flavicephala* Godg. "Florida" (Van Duzee) ; Gainesville (C. J. D.).
- Ophiderma salamandra* Fairm. Tampa, Sevenoaks (Van Duzee) ; Jacksonville (Mrs. Slosson).
- Stictolobus 3-lineatus* Funk. Gainesville (C. J. D.).
- Idioderma virescens* Van D. "Taken occasionally at all places where I worked" (Van Duzee) ; Estero (Van Duzee) ; Sanford, Clearwater (A. M. N. H.) ; Gainesville (C. J. D.) ; St. Petersburg (H. O.).
- Idioderma varia* Van D. Estero (Van Duzee).
- Vanduzeeia triguttata* (Burm.) St. Petersburg, Estero, Sevenoaks (Van Duzee) ; Jacksonville (Mrs. Slosson).
- Entylia concisa* Walk. Crescent City (Van Duzee).
- Entylia sinuata* (Fab.) Crescent City. Sanford, Ft. Myers (Van Duzee) ; St. Augustine (Johnson) ; Gainesville (J. R. W.).
- Umbonia crassicornis* (A. & S.) "Florida" (Amy. et Serv). No modern records.
- Platycotis vittata* Fab. "Florida" (Goding) ; St. Augustine (Johnson) ; LaBelle on water oak (H. O.). Occurs in two forms—spotted and striped.
- Platycotis sagittata* Germ. Crescent City. Sevenoaks (Van Duzee).
- Enchenopa binotata* Say. St. Augustine (Johnson).
- Campylenchia latipes* (Say). Gainesville (C. J. D.).
- Tylopelta brevis* Van D. Crescent City (Van Duzee).
- Centruchoides perdita* A. and S. Jacksonville (Mrs. Slosson).

## CERCOPIDAE

- Tomaspis bicincta* (Say). Sanford, Ft. Myers (Van Duzee); Lake Worth, Biscayne Bay (Mrs. Slosson); Clearwater, Apr., Ft. Myers, Nov., Mch., Everglade, Apr. (A. M. N. H.); Gainesville (J. R. W.).
- Aphrophora quadrinotata* Say. "Florida" (Ball).
- Aphrophora saratogensis* (Fitch). Crescent City (Van Duzee); Jacksonville (Mrs. Slosson); Gainesville (C. J. D.).
- Lepyronia angulifera* Uhl. "Found in moderate numbers at all places where I collected in Florida" (Van Duzee); Biscayne Bay (Mrs. Slosson); Sanford, Clearwater, Crescent City, Ft. Myers, LaBelle, Tampa, Punta Gorda, Lakeland, Newberry (A. M. N. H.).
- Lepyronia quadrangularis* Say. "Florida" (Ball); Gainesville (C. J. D.).
- Clastoptera obtusa* (Say). This very common northern species has been taken at Gainesville. (C. J. D.)
- Clastoptera proteus* var. *saint-cyri* Prov. Crescent City (Van Duzee).
- Clastoptera proteus* var. *vittata* Ball. Sevenoaks (Van Duzee).
- Clastoptera xanthocephala* Germ. "Abundant everywhere in Florida" (Van Duzee); Biscayne Bay, Belleair (Mrs. Slosson); Clearwater, Sanford, Crescent City, Jacksonville (A. M. N. H.); Gainesville (C. J. D., J. R. W.); St. Petersburg and numerous other points (H. O.).
- Clastoptera xanthocephala* var. *glauca* Van D. Ormond, Biscayne Bay (Mrs. Slosson); St. Petersburg, Miami (A. M. N. H.); Gainesville (J. R. W.).

## FAM. CICADELLIDAE

## Sub. Fam. Bythoscopinae

- Agallia novella* (Say). Crescent City (Van Duzee); Gainesville (C. J. D., J. R. W.); Lake City (Col. Ag. Exp. Sta.).
- Agallia constricta* Van D. Crescent City. Sanford, (Van Duzee and A. M. N. H.); Ormond, Jacksonville, Atlantic Beach (Mrs. Slosson); Gainesville (C. J. D.); Lake City (Coll. Ag. Exp. Sta.); St. Petersburg (H. O.) abundant and of economic importance.
- Agallia 4-punctata* Prov. (H. L. Dozier).
- Agallia deleta* Van D. Crescent City, Sanford, Ft. Myers, (Van Duzee); Belleair (Mrs. Slosson).

*Agallia sanguinolenta* Prov. Crescent City, Sanford (Van Duzee); Lake Worth (Mrs. Slosson); Gainesville (C. J. D.); St. Petersburg (H. O.). Widely distributed and injurious.

*Agallia immaculata* Lath. Gainesville (C. J. D.)

*Agallia lyrata* Baker. Crescent City (Van Duzee).

*Agallia variata* Uhl. Lake Worth (Mrs. Slosson).

*Agallia oculata* Van D. Gainesville (C. J. D.).

*Idiocerus nervatus* Van D. Crescent City (Van Duzee).

Sub. Fam. Cicadellinae

*Oncometopia lateralis* (Fab.) Crescent City, Sanford, Tampa (Van Duzee); Sanford, Clearwater. Jacksonville (A. M. N. H.); St. Augustine (Johnson). Gainesville (C. J. D.); especially common on sunflowers (J. R. W.). St. Petersburg (H. O.).

*Oncometopia undata* (Fab.) "Found commonly throughout Florida" (Van Duzee); Jacksonville, Ormond (Mrs. Slosson); Clearwater, Sanford, Lakeland, Miami, Key Largo (A. M. N. H.); St. Augustine (Johnson); Lake Wales, Gainesville (J. R. W.).

*Homalodisca triquetra* (Fab.) Sanford, Sevenoaks (Van Duzee); Sanford, Clearwater (A. M. N. H.); Gainesville (J. R. W.).

*Aulacizes guttata* Uhl. Ft. Myers (Van Duzee); Biscayne Bay (Mrs. Slosson); Ft. Myers, Deep Lake, Apr. (A. M. N. H.).

*Aulacizes irrorata* (Fab.) Lake Worth, Biscayne Bay (Mrs. Slosson); Crescent City, Sanford, Apr. (A. M. N. H.). Gainesville (J. R. W.); Lake City (A. L. Quaintance).

*Aulacizes pollinosa* Fowl.

*Cicadella occatoria* (Say). Crescent City, Sanford (Van Duzee); Crescent City (A. M. N. H.); Atlantic Beach, Jacksonville (Mrs. Slosson); "Florida" (Ball); Gainesville (J. R. W., C. J. D.); St. Petersburg (H. O.).

*Kolla bifida* (Say). Gainesville (C. J. D., J. R. W.).

*Kolla bifida fasciata* (Walk.) "Common everywhere in Florida" (Van Duzee); Biscayne Bay. Jacksonville, Belleair (Mrs. Slosson); Crescent City, LaBelle, Ft. Myers, Lakeland (A. M. N. H.); "Florida" (Ball); St. Petersburg (H. O.).

*Kolla geometrica* (Sign.) "Common in Florida" (Van Duzee); Crescent City, Sanford (A. M. N. H.); Belleair (Mrs. Slosson), Gainesville, (H. L. D. C. J. D.); Bradentown (J. R. W.); St. Petersburg (H. O.).

- Kolla hartii* (Ball) Ft. Myers, Estero (Van Duzee); Ormond, Biscayne Bay, Lake Worth (Mrs. Slosson); Ft. Myers, LaBelle (A. M. N. H.). Destructive in grass; St. Petersburg (H. O.)
- Kolla similis* (Walk.) Biscayne Bay. (Mrs. Slosson; Miami (A. M. N. H.) Common in West Indies and Central America. Possibly a recent introduction.
- Graphocephala coccinea* (Forst.) Crescent City, Sanford, (Van Duzee and A. M. N. H.); Ft. Myers (Van Duzee); Jacksonville, Atlantic Beach (Mrs. Slosson); St. Augustine (Johnson); Gainesville (C. J. D.); St. Petersburg (H. O.) Abundant and affecting many kinds of plants.
- Graphocephala versuta* Say. "Taken everywhere in Florida" (Van Duzee); Biscayne Bay, Ormond, (Mrs. Slosson); Sanford, South Bay of L. Okeechobee (A. M. N. H.). Gainesville (C. J. D., J. R. W., H. L. D.). Lake Wales (J. R. W.); St. Petersburg (H. O.). Very common and certainly injurious.
- Draeculacephala floridana* Ball. Charlotte Harbor (Mrs. Slosson); Everglade (A. M. N. H.); St. Petersburg, Salt Marsh Meadow (H. O.)
- Draeculacephala balli* Van D. Gainesville (C. J. D.)
- Draeculacephala acuta* Walk. South Bay of L. Okeechobee (A. M. N. H.); St. John's Bluff, E. Florida (Walker).
- Draeculocephala mollipes* Say. Crescent City, Clearwater, (Van Duzee); Belleair, Ormond, Lake Worth, (Mrs. Slosson) South Bay of L. Okeechobee (A. M. N. H.). Very widely distributed and injurious.
- Draeculacephala mollipes minor* Walk. "Taken in damp places and near water in most localities where I collected in Florida" (Van Duzee); Ormond (Mrs. Slosson); Ft. Myers, Lakeland, Crescent City, Sanford (A. M. N. H.)
- Draeculacephala inscripta* Van D. Gainesville (C. J. D.)
- Draeculacephala reticulata* Sign. St. Petersburg, Estero (Van Duzee; Belleair, Biscayne Bay, Ormond, Jacksonville, (Mrs. Slosson); Everglade, Marco, LaBelle, Ft. Myers (A. M. N. H.); Lake City (H. A. G.); Moore Haven, Gainesville, (J. R. W.); St. Petersburg, Key West, Miami, and at almost every locality visited (H. O.) Very injurious to grasses and cereals.

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*Draeculacephala 7-guttata* Walk. "Generally distributed but not common in Florida" (Van Duzee); Jacksonville, Ormond, Biscayne Bay. Belleair, Lake Worth (Mrs. Slosson); Titusville, Punta Gorda, Sanford (A. M. N. H.) Gainesville (C. J. D.); St. Petersburg (H. O.).

*Penthima americana* Fitch. "Taken everywhere in Florida" (Van Duzee); Charlotte Harbor, Biscayne Bay, Jacksonville, (Mrs. Slosson); Clearwater, Sanford, Ft. Myers, Jacksonville (A. M. N. H.); St. Augustine (Johnson). Gainesville (C. J. D.); St. Petersburg (H. O.)

*Gypona rugosa* Spangb. Belleair (Mrs. Slosson); Lakeland, Jacksonville (A. M. N. H.)

*Gyona 8-lineata* (Say). "Common everywhere in Florida" (Van Duzee); Biscayne Bay, Jacksonville (Mrs. Slosson); Lakeland, Ft. Myers, Crescent City, Sanford, Jacksonville (A. M. N. H.). Gainesville, (C. J. D. H. L. D.)

*Gypona albosignata* Uhl. Jacksonville (Mrs. Slosson).

*Gypona scarlatina* var. *citrina* Spangb. Crescent City, Sanford, (Van Duzee); Atlanta Beach (Mrs. Slosson); Gainesville, Common. Canal Point (H. O.)

*Gypona irrorella* Spangb. Ft. Myers (Van Duzee); La Belle, Ft. Myers (A. M. N. H.)

*Gypona striata* Burm. "Florida" (Van Duzee); Ormond, Biscayne Bay, Jacksonville (Mrs. Slosson).

*Gypona tenella* Spangb. Sanford, Sevenoaks (Van Duzee); Lakeland May (A. M. N. H.); Biscayne Bay (Mrs. Slosson).

*Gypona sanguinolenta* Spangb. Sanford, Ft. Myers (Van Duzee); Jacksonville (Mrs. Slosson).

*Gypona scarlatina* Fitch. Miami (A. M. N. H.).

*Gypona miliaris* Stal. Gainesville (C. J. D.).

*Gypona resima* Fowl. Gainesville (C. J. D.).

*Xerophloea viridis* Fab. Biscayne Bay (Mrs. Slosson); St. Augustine (Johnson).

Sub. Fam. Jassinae

*Xestocephalus pulicarius* Van D. Crescent City, Ft. Myers (Van Duzee); Everglade (A. M. N. H.). Gainesville (C. J. D.); St. Petersburg (H. O.)

*Xestocephalus tessellatus* Van D. Jacksonville, Belleair, Biscayne Bay, Charlotte Harbor (Mrs. Slosson); LaBelle, Apr. (A. M. N. H.).

*Dorycephalus vanduzeei* Osb. and Ball. Clearwater (Van Duzee); St. Petersburg, Ruskin (H. O.).

*Dorydiella floridana* Baker. "Florida" (Baker).

*Hecalus apicalis* Van D. Crescent City, St. Petersburg, Estero (Van Duzee); Punta Gorda (A. M. N. H.).

*Neoslossonia putnami* (Osb.) Sanford (Van Duzee); Jacksonville (Mrs. Slosson).

*Spangbergiella mexicana* Baker. Biscayne Bay (Mrs. Slosson); Gainesville (C. J. D.); St. Petersburg (H. O.)

*Spangbergiella vulnerata* Uhl. Crescent City, Sanford, St. Petersburg, Ft. Myers (Van Duzee); Belleair, Ormond (Mrs. Slosson); Lakeland Nov. (A. M. N. H.); Gainesville (C. J. D.); St. Petersburg (H. O.)

*Parabolocratus flavidus* Sign. "Taken at most of the places where I collected but not at all common" (Van Duzee); Punta Gorda. Nov. (A. M. N. H.); Gainesville (C. J. D.); St. Petersburg, common. (H. O.)

\**Platymetopius elegans* Van D. (?) Tampa, on live oak (H. O.).

*Platymetopius frontalis* Van D. Jacksonville, Biscayne Bay (Mrs. Slosson); Ft. Myers, Apr. (A. M. N. H.). Gainesville (C. J. D. J. R. W.). St. Petersburg (H. O.)

*Platymetopius parvus* Lath. Gainesville (C. J. D.).

*Platymetopius loricatus* Van D. Sevenoaks, St. Petersburg, Ft. Myers (Van Duzee); Belleair (Mrs. Slosson).

*Platymetopius magdalensis* Prov. Gainesville (C. J. D.).

*Platymetopius nasutus* Van D. Belleair (Mrs. Slosson).

*Platymetopius slossoni* Van D. Jacksonville (Mrs. Slosson); Jacksonville, Newberry (A. M. N. H.). Gainesville (C. J. D., H. L. D., J. R. W.)

- Platymetopius verecundus* Van Duzee. Crescent City, Sanford, Sevenoaks, Clearwater, Estero (Van Duzee); Sanford (A. M. N. H.). Gainesville (C. J. D.).
- Scaphoideus scalaris* Van D. Jacksonville, Nov. (A. M. N. H.).
- Scaphoideus unicolor* Osb. Sanford (Van Duzee) Gainesville (C. J. D.).
- Scaphoideus consors* Uhl. Crescent City (Van Duzee).
- Scaphoideus fasciatus* Osb. Gainesville (C. J. D.).
- Scaphoideus cruciatus* Osb. Marco, Everglade, Apr. (A. M. N. H.); Clearwater, Ft. Myers (Van Duzee); Biscayne Bay (Mrs. Slosson). Gainesville (C. J. D.).
- Scaphoideus obtusus* Osb. Crescent City, Sanford, Sevenoaks, Ft. Myers (Van Duzee).
- Scaphoideus albonotatus* Van D. Estero (Van Duzee).
- Scaphoideus auronitens* Prov. Biscayne Bay. (Mrs. Slosson); Crescent City, Apr. (A. M. N. H.).
- Scaphoideus immistus* Say. Crescent City, Apr. (A. M. N. H.).
- Scaphoideus jucundus* Uhl. Estero (Van Duzee).
- Scaphoideus neglectus* Osb. Crescent City, St. Petersburg (Van Duzee); Biscayne Bay (Mrs. Slosson). Gainesville, (C. J. D.).
- Scaphoideus opalinus* Osb. Sevenoaks (Van Duzee).
- Deltocephalus slossoni* Ball. Biscayne Bay (Mrs. Slosson).
- Deltocephalus inflatus* Osb. and Ball. Crescent City, Estero, Sevenoaks (Van Duzee).
- Deltocephalus visendus* Crumb. Gainesville.
- Deltocephalus reflexus* Osb. and Ball. Belleair (Mrs. Slosson).
- Deltocephalus fraternus* Ball. Jacksonville (Mrs. Slosson); Lakeland, Newberry, Clearwater, Jacksonville (A. M. N. H.). Gainesville, (C. J. D.). St. Petersburg, Ruskin and many other places on grass in "flatwoods". (H. O.)
- Deltocephalus misellus* Ball. Jacksonville, Nov. (A. M. N. H.).
- Deltocephalus weedi* Van D. Crescent City, Clearwater, Sevenoaks, Estero (Van Duzee); Biscayne Bay (Mrs. Slosson); Jacksonville, Nov. (A. M. N. H.). Gainesville (J. R. W.).
- Deltocephalus micarius* Ball. Sevenoaks, Sanford (Van Duzee).
- Deltocephalus obtectus* Osb. and Ball. "Taken occasionally at nearly all places where I worked in Florida" (Van Duzee); Belleair, Biscayne Bay (Mrs. Slosson); Newberry, Jacksonville, Lakeland, Nov. (A. M. N. H.). Gainesville (C. J. D.). Lake City (H. A. G.) Common on Bermuda grass and doubtless destructive.
- Deltocephalus compactus* Osb. and Ball. Gainesville (C. J. D.).

*Deltocephalus flavicosta* Stal. Biscayne Bay, Atlantic Beach (Mrs. Slosson); Lakeland, LaBelle, Titusville, Key Largo, Everglade, Sanford (A. M. N. H.). Gainesville (C. J. D. J. R. W.). St. Petersburg, Largo, etc. (H. O.)

\**Deltocephalus marinus* Osb. and Metcalf. Long Key, Pinellas Co. (H. O.).

*Deltocephalus littoralis* Ball. St. Petersburg (Van Duzee); Everglade, Apr. (A. M. N. H.). At shoreline on grasses subject to submergence at high tide as observed in N. C.

*Deltocephalus caperatus* Ball. Sevenoaks (Van Duzee).

*Deltocephalus balli* Van D. Lake Worth (Mrs. Slosson). St. Petersburg (H. O.)

*Deltocephalus mendosus* Ball. Estero (Van Duzee); Lake City (Gossard).

\**Deltocephalus satur* Ball. St. Petersburg (H. O.).

*Deltocephalus sonorus* Ball. Estero, St. Petersburg (Van Duzee); Ormond, Belleair, Biscayne Bay (Mrs. Slosson); St. Petersburg (H. O.).

*Lonatura bicolor* Van D. St. Petersburg, Largo, Ruskin. Fairly common at some points in "flatwoods" on grasses (H. O.)

*Euscelis bicolor* (Van D.) Crescent City, Tampa, St. Petersburg (Van Duzee). Gainesville (C. J. D. J. R. W.). Lake City (A. L. Quaintance). Bradentown J. R. W.

*Euscelis exitiosus* (Uhl.) "Common everywhere in Florida" (Van Duzee): Biscayne Bay, Belleair, Ormond, Lake Worth, Jacksonville (Mrs. Slosson); Punta Gorda, Marco (A. M. N. H.). Gainesville (C. J. D. J. R. W.). Lake City (H. A. G.). Moore Haven (J. R. W.)

*Euscelis obtutus* (Van D.) Crescent City (Van Duzee); St. Petersburg (H. O.)

*Eutettix bartschi* Van D. Sevenoaks, Estero (Van Duzee); Ormond, Biscayne Bay, Atlantic Beach (Mrs. Slosson); St. Petersburg, Miami (A. M. N. H.).

*Eutettix lurida* Van D. Titusville, Nov. (A. M. N. H.); St. Augustine (Johnson).

*Eutettix marmoratus* Van D. "Florida" (Ball).

*Eutettix slossoni* Van D. Sanford, St. Petersburg, Sevenoaks, Ft. Myers (Van Duzee); Biscayne Bay (Mrs. Slosson); Clearwater (A. M. N. H.). Gainesville (C. J. D.)

*Eutettix nitens* Van D. Sevenoaks, Estero (Van Duzee).

*Eutettix picta* Van D. "Florida" (Ball). Gainesville (C. J. D.).

- Eutettix seminuda* (Say). Gainesville (C. J. D., J. R. W.); Lake City (Gossard).
- Eutettix cincta* Osb. and Ball. Gainesville (C. J. D.).
- Eutettix tristis* Ball. "Florida" (Ball).
- \**Phlepsius distinctus* Lathrop. St. Petersburg (H. O.).
- Phlepsius attractus* Ball. Jacksonville (Mrs. Slosson).
- Phlepsius cinereus* Van D. Biscayne Bay (Mrs. Slosson).
- Phlepsius collitus* Ball. Jacksonville (Mrs. Slosson).
- Phlepsius costumaculatus* Van D. Belleair, Biscayne Bay (Mrs. Slosson); Crescent City, Sanford, Sevenoaks, St. Petersburg, Ft. Myers (Van Duzee); LaBelle (A. M. N. H.). Gainesville (J. R. W.). Clearwater (Gossard).
- Phlepsius decorus* Osb. and Ball. Tampa (Van Duzee).
- Phlepsius excultus* Uhl. Crescent City, Sanford, Sevenoaks, Ft. Myers (Van Duzee); Jacksonville, Biscayne Bay (Mrs. Slosson); Crescent City, Sanford, Marco (A. M. N. H.); St. Augustine (Johnson). Gainesville (J. R. W.). Clearwater (Gossard).
- Phlepsius floridanus* Ball. Biscayne Bay (Mrs. Slosson).
- Phlepsius fulvidorsum* Fitch. "Florida" (Van Duzee).
- Phlepsius fuscipennis* Van D. "Common everywhere in suitable locations" (Van Duzee); Lake Worth, Belleair, Biscayne Bay. Jacksonville (Mrs. Slosson); Newberry, Punta Gorda, Nov. (A. M. N. H.). Bradentown (J. R. W.).
- Phlepsius irroratus* Say. Jacksonville (Mrs. Slosson).
- Phlepsius lippulus* Ball. Biscayne Bay (Mrs. Slosson).
- Phlepsius mimus* Baker. Crescent City (Van Duzee).
- Phlepsius nebulosus* Van D. "Florida" (Van Duzee).
- Phlepsius nudus* Ball. Sevenoaks, Ft. Myers (Van Duzee).
- Phlepsius punctiscriptus* Van D. Belleair, Charlotte Harbor (Mrs. Slosson).
- Phlepsius slossoni* Ball. Biscayne Bay (Mrs. Slosson).
- Phlepsius truncatus* Van D. Crescent City, Sevenoaks (Van Duzee).
- Acinopterus acuminatus* Van D. Tampa, Sanford (Van Duzee); Biscayne Bay (Mrs. Slosson); Jacksonville, Newberry, Miami, Nov. (A. M. N. H.). Gainesville (C. J. D.); St. Petersburg (H. O.).
- \**Thamnotettix aureovittatus* Sand. & DeL. Described from Big Bayou and St. Petersburg.

*Thamnotettix comata* Ball. Crescent City, Sanford, Sevenoaks, St. Petersburg (Van Duzee); Belleair (Mrs. Slosson); LaBelle, Nov. (A. M. N. H.).

*Thamnotettix orbonata* Ball. Biscayne Bay (Mrs. Slosson).

*Thamnotettix nigrifrons* (Forbes). Crescent City, Sanford, St. Petersburg (Van Duzee); Jacksonville, Ormond, Belleair, Atlantic Beach (Mrs. Slosson); Crescent City, LaBelle, Titusville (A. M. N. H.). Abundant—destructive to grasses and cereal crops.

*Thamnotettix colonus* (Uhl.) Gainesville, St. Petersburg (H. O.)  
An abundant species in grass lands.

*Thamnotettix subcuprea* (Prov.) Sanford, Sevenoaks, Ft. Myers (Van Duzee); Jacksonville (Mrs. Slosson).

*Thamnotettix brittoni* Osb. Gainesville (C. J. D.).

*Chlorotettix galbanata* Van D. Ft. Myers (Van Duzee).

*Chlorotettix minima* Baker. Estero (Van Duzee).

*Chlorotettix necopina* Van D. Crescent City, Sanford, Sevenoaks, Clearwater (Van Duzee); Biscayne Bay, Ormond (Mrs. Slosson); LaBelle, Titusville, Jacksonville, Sanford (A. M. N. H.). Gainesville (C. J. D.); St. Petersburg (H. O.) Common in coarse grasses.

*Chlorotettix rugicollis* Ball. "Taken at most places where I worked" (Van Duzee); Jacksonville (Mrs. Slosson); Jacksonville, Lakeland, Newberry, Ft. Myers (A. M. N. H.). Gainesville (C. J. D.); St. Petersburg, Ruskin, Delray. Common. (H. O.)

*Chlorotettix spatulata* Osb. and B. Jacksonville (Mrs. Slosson).

*Chlorotettix tergatus* (Fitch). "Florida" (Van Duzee).

*Chlorotettix tunicata* Ball. Sanford, Clearwater, Estero, St. Petersburg (Van Duzee); Belleair, Biscayne Bay (Mrs. Slosson); Marco, Sanford, Miami (A. M. N. H.).

*Chlorotettix viridius* Van D. "Taken at all places where I worked," St. Petersburg, Sevenoaks (Van Duzee); Belleair (Mrs. Slosson); Sanford, Clearwater (A. M. N. H.). An abundant species in grass lands.

*Jassus olitorius* Say. "Common everywhere in Florida" (Van Duzee); Ormond, Belleair, Charlotte Harbor (Mrs. Slosson); Sanford, Estero, Clearwater, Crescent City, LaBelle, Marco, Lakeland, Titusville, Jacksonville (A. M. N. H.); St. Augustine (Johnson). Gainesville (C. J. D.). Common in woodland. Lake City (Exp. Sta. Coll.)

- Jassus melanotus* Spang. Gainesville (J. R. W.).  
*Jassus borealis* Spang. Bradentown (J. R. W.).  
*Neocoelidia tumidifrons* Gill. and Bak. Jacksonville (Mrs. Slosson); St. Petersburg (H. O.).  
*Paracoelidea tuberculata* Baker. Sevenoaks (Van Duzee); Jacksonville (A. M. N. H.). Common on pines.  
*Tinobregmus vittatus* Van D. Biscayne Bay. (Mrs. Slosson).  
*Cicadula 6-notata* Fall. Sanford, Ft. Myers (Van Duzee). Gainesville.  
*Balclutha impicta* Van D. Crescent City (Van Duzee). var. *medius* Bak.  
*Eugnathodus abdominalis* Van D. Sanford, Clearwater, Ft. Myers (Van Duzee); Biscayne Bay, Ormond (Mrs. Slosson). Abundant in grasses.  
*Protoblebra braziliensis* Bak. Belleair, Biscayne Bay (Mrs. Slosson).  
*Empoasca flavescens* Fab. Crescent City, Estero (Van Duzee).  
*Empoasca mali* LeB. Crescent City, Sanford, Ft. Myers, Estero (Van Duzee); Jacksonville (Mrs. Slosson).  
*Empoasca viridiscens* Walsh. (Van Duzee Cat.)  
*Empoasca unicolor* Gill. Ormond (Mrs. Slosson).  
 \**Empoasca minuenda* Ball. On avocado W. Palm Beach (G. F. Moznette).  
*Typhlocyba flavoscuta* Gill. Sanford, Sevenoaks (Van Duzee).  
*Typhlocyba rubricata* Van D. Crescent City (Van Duzee).  
*Erythroneura comes* Say. Crescent City, Sevenoaks, Estero (Van Duzee); Jacksonville (A. M. N. H.).

## FULGORIDAE

- Cyrpoptus belfragei* Stal. Tampa (Van Duzee); St. Augustine, Nov. (Engelhardt. and Johnson). Enterprise?  
*Cyrpoptus reineckii* Van Duzee. Widely distributed in the state. Estero (Mrs. Slosson); Jacksonville (Sleight); Sanford, Clearwater, St. Petersburg, Apr., Jacksonville, May (A. M. N. H.). Gainesville (C. J. D. J. R. W.)  
*Dictyophara lingula* Van D. Estero (Van Duzee); Punta Gorda, Lakeland, Nov. (Davis); Ormond (Mrs. Slosson); Punta Gorda, Nov. (A. M. N. H.) Gainesville (C. J. D. J. R. W.)  
*Dictyophara microrrhina* Walk. Jacksonville, Lakeland (Davis); Ft. Myers, Lakeland, Nov. (A. M. N. H.); St. Augustine (Johnson). Gainesville (J. R. W.)  
*Scolops spurcus* Uhl. Gainesville (C. J. D.).  
*Scolops angustatus* Uhl. St. Augustine (Johnson).

- Scolops desiccatus* Uhl. Crescent City, Sanford (Van Duzee).  
*Scolops sulcipes* Say. "Florida" (Uhler). Gainesville (J. R. W.);  
Common over large part of Eastern United States.  
*Phylloscelis atra* Germ. St. Petersburg, Sevenoaks, Ft. Myers and  
Estero (Van Duzee); Ft. Myers, Jacksonville, Miami, Nov.  
(A. M. N. H.). Gainesville. Widely distributed.  
*Phylloscelis atra* var. *albovenosa* Mel.  
*Phylloscelis pallescens* Germ. Estero (Van Duzee).  
*Tangia sponsa* Uhl. "Southern Florida" (Uhler).  
*Monopsis tabida* Spin. "Florida" (Van Duzee).  
*Catonia picta* Van D. Estero (Van Duzee); Gainesville (C. J. D.).  
*Catonia bicinctura*, Punta Gorda, Newberry (Van Duzee).  
Gainesville (C. J. D.).  
*Ellidiptera floridae* Walk. Newberry (Davis).  
*Ellidiptera pallida* Say. "Florida" (Say).  
*Bothriocera tinealis* Burm. Charlotte Harbor, Biscayne Bay  
(Mrs. Slosson). Gainesville (J. R. W. C. J. D.)  
*Bothriocera signorite*?  
*Bothriocera undata* Fab. "Was taken everywhere I collected in  
Florida" (Van Duzee); Lake Worth, Biscayne Bay, Ormond  
(Mrs. Slosson).  
*Oliarus quinquelineatus* Say. Jacksonville (Mrs. Slosson). Com-  
mon over Eastern United States.  
*Oliarus placitus* Van D. Ft. Myers, May (Van Duzee); Gaines-  
ville (C. J. D. J. R. W.).  
*Oliarus vicarius* Walk. Estero, Ft. Myers, St. Petersburg, Clear-  
water, Sevenoaks. (Van Duzee); Jacksonville, Ormond,  
Charlotte Harbor (Mrs. Slosson); Marco, Apr. (A. M.  
N. H.); St. Augustine (Johnson). Gainesville (C. J. D.).  
*Oliarus complectus* Ball. St. Petersburg, Sevenoaks, Estero (Van  
Duzee); Key Largo, Nov. (A. M. N. H.). abundant and  
widely distributed.  
*Oliarus slossoni* Van D. Belleair, Biscayne Bay (Mrs. Slosson).  
*Oliarus difficilis* Van D. Belleair (Mrs. Slosson).  
*Monorhachis sordulentus* Uhl. Lake Worth (Mrs. Slosson);  
Gainesville.  
*Cixius dorsivittatus* Van D. Crescent City (Van Duzee); Bis-  
cayne Bay (Mrs. Slosson); Everglade, Apr. (A. M. N. H.).  
*Oecleus borealis* Van D. "Abundant at all places, especially to-  
wards the southern end of the state" (Van Duzee); Jack-  
sonville, Ormond, Atlantic Beach (Mrs. Slosson) Clearwater,  
Apr., Sanford, May (A. M. N. H.). Gainesville (C. J. D.).

*Myndus delicatus* Van D. "Florida" (Van Duzee).

*Myndus slossoni* Ball. Crescent City (Van Duzee); Biscayne Bay, Charlotte Harbor (Mrs. Slosson); Crescent City, Sanford, Apr. (A. M. N. H.). Gainesville (J. R. W.). St. Petersburg (H. O.)

*Myndus enotatus* Van D. Crescent City, Apr. (Van Duzee, Mrs. Slosson and A. M. N. H.); Ormond, Charlotte Harbor, Biscayne Bay (Mrs. Slosson); Sanford, Apr. (A. M. N. H.); St. Petersburg (H. O.)

*Myndus lunatus* Van D. Sanford, Sevenoaks, Ft. Myers, Estero, (Van Duzee).

*Myndus pusillus* Van D. Crescent City, Sevenoaks (Van Duzee); Ormond, Atlantic Beach, Charlotte Harbor (Mrs. Slosson).

*Pelitropis rotulata* Van Duz. Ft. Myers, Estero (Van Duzee); Lake Worth, Biscayne Bay (Mrs. Slosson). Gainesville (C. J. D.)

*Fitchiella robertsoni* (Fitch). Estero (Van Duzee); St. Petersburg (H. O.)

*Bruchomorpha pallidipes* Stal. Crescent City, Estero (Van Duzee).

*Bruchomorpha suturalis* Melich. "Common throughout Florida" (Van Duzee); Ft. Myers, Lakeland, Newberry, Nov. (A. M. N. H.).

*Bruchomorpha tristis* Stal. Crescent City, Estero, Sevenoaks (Van Duzee).

*Bruchomorpha jocosa* Stal. Crescent City, Sanford, Sevenoaks, St. Petersburg, Tampa, Ft. Myers (Van Duzee); Lakeland, Nov. (A. M. N. H.).

*Aphelonema decorata* Van D. Crescent City, St. Petersburg (Van Duzee); Charlotte Harbor (Mrs. Slosson).

*Hysteropterum punctiferum* Walk. Widely distributed and very abundant. Jacksonville (Mrs. Slosson); Clearwater, Sanford, Tampa (A. M. N. H.). Gainesville (C. J. D. J. R. W.). Plentiful.

*Thionia simplex* Germ. Sevenoaks (Van Duzee); Gainesville (C. J. D. J. R. W.).

*Thionia bullata* Say. Jacksonville (Mrs. Slosson); Gainesville (C. J. D. J. R. W.).

*Acanalonia bivittata* (Say). Estero (Van Duzee); Gainesville (C. J. D.).

- Acanalonia latifrons* (Walk.) Tampa, Ft. Myers, Estero (Van Duzee); St. Augustine (Johnson); Biscayne Bay (Mrs. Slosson); Lakeland (A. M. N. H.). Gainesville (C. J. D. J. R. W.).
- Acanalonia pumila* (Van D.) Estero Island (Van Duzee); Biscayne Bay (Mrs. Slosson). Cedar Keys, Gainesville (J. R. W.)
- Acanalonia conica* (Say). Gainesville (C. J. D.).
- Acanalonia servillei* Spin. "Florida" (Uhler); Gainesville (C. J. D.).
- Ormenis proxima* (Walk.) "East Florida" (Walker).
- Ormenis pruinosa* (Say). Sevenoaks, Estero (Van Duzee); Clearwater, Apr. (A. M. N. H.); St. Augustine (Johnson). Gainesville (J. R. W.)
- Ormenis rufifascia* (Walk.) Ft. Myers, Estero, Clearwater (Van Duzee); LaGrange, Sept. (Sleight); Sanford, Apr. (A. M. N. H.).
- Ormenis septentrionalis* (Spin.) St. Augustine (Johnson); Gainesville.
- Cyarda melichari* Van D. "Common everywhere in Florida" (Van Duzee); Sanford, Crescent City, St. Petersburg, Everglade, Tampa, Jacksonville, Newberry, Lakeland, Punta Gorda, Ft. Myers (A. M. N. H.). Gainesville (C. J. D. and J. R. W.). Blandon, New Smyrna, Bradentown (J. R. W.).
- Flatoides punctatus* (Walk.) "Taken occasionally at all places where I collected in Florida" (Van Duzee); Biscayne Bay, Jacksonville (Mrs. Slosson); Marco, Ft. Myers, Clearwater, Lakeland, Punta Gorda (A. M. N. H.). Gainesville (C. J. D.).
- Amalopota fitchii* Van D. Gainesville (C. J. D.). Heretofore known as a northern species and recorded only as far south as North Carolina.
- Otiocerus abbotti* Kirby. Jacksonville (A. M. N. H.). Gainesville (C. J. D.)
- Otiocerus degeeri* Kirby. Sevenoaks (Van Duzee); Jacksonville (A. M. N. H. and Davis); "Florida" (Uhler). Gainesville (C. J. D.)
- Cenchrea fulva* Van D. Estero (Van Duzee); Gainesville (J. R. W.). Also from Cuba.
- Lamenia obscura* Ball. Crescent City, Haw Creek (Van Duzee and A. M. N. H.). Gainesville (C. J. D.).
- Copicerus irroratus* Schwartz. Biscayne Bay (Mrs. Slosson). Gainesville (C. J. D.).

- Stenocranus dorsalis* Fitch. Crescent City, Sanford (Van Duzee); Biscayne Bay (Mrs. Slosson); Crescent City (A. M. N. H.).
- Stenocranus dorsalis* Fitch. var. *lautus* Van Duzee.
- Stenocranus palaetus* Van D. Crescent City (Van Duzee and A. M. N. H.); Everglade, Apr. (A. M. N. H.).
- Stenocranus saccharivorus* Westw. Tampa (Van Duzee).
- Kelisia parvula* Ball. "Florida" (Van Duzee).
- Megamelanus elongatus* Ball. Crescent City, St. Petersburg, Estero Island (Van Duzee); Belleair, Biscayne Bay, Ormond (Mrs. Slosson).
- ?*Megamelanus spartini* Osb. St. Petersburg (Van Duzee); Belleair (Mrs. Slosson).
- Prokelesia marginata* Van D. Estero (Van Duzee); Ormond (Mrs. Slosson).
- Megamelus seminigra* Stal. "Florida" (Van Duzee).
- Macrotomella carinata* Van D. Crescent City, Ft. Myers (Van Duzee).
- Pissonotus marginatus* Van D. Sevenoaks (Van Duzee).
- Pissonotus basalis* Van D. Ft. Myers, Estero (Van Duzee).
- Pissonotus ater* Van D. Crescent City, Tampa, Sevenoaks, Ft. Myers (Van Duzee); Titusville, Nov. (A. M. N. H.).
- Pissonotus pallipes* Van D. "Florida" (Van Duzee).
- Pissonotus brunneus* Van D. Crescent City (Van Duzee).
- Pissonotus delicatus* Van D. Sevenoaks, Crescent City, Estero (Van Duzee).
- Peregrinus maidis* Ashm. Estero (Van Duzee).
- Phyllodinus nitens* Van D. St. Petersburg, Estero (Van Duzee).
- Bostaera nasuta* Ball. Tampa, Sevenoaks (Van Duzee); St. Petersburg (H. O.)
- Stobaera affinis* Van D. Crescent City, Ft. Myers (Van Duzee); Biscayne Bay (Mrs. Slosson).
- Stobaera pallida* Osb. Ft. Myers, Estero (Van Duzee); Newberry (A. M. N. H.); Nassau (Crawford); Key West (H. O.)
- Stobaera quadripustulata* Van D. Estero (Van Duzee).
- Stobaera concinna* Stal. Biscayne Bay, Belleair (Mrs. Slosson); Gainesville (C. J. D.)
- Liburniella ornata* Stal. Crescent City (Van Duzee).
- Liburnia slossoni* Ball. Crescent City, Estero (Van Duzee); Biscayne Bay, Belleair, Lake Worth, Ormond (Mrs. Slosson).
- Liburnia weedi* Van D. Sanford, Crescent City (Van Duzee); Punta Gorda (A. M. N. H.)

- Liburnia humilis* Van D. Sanford, St. Petersburg (Van Duzee).  
*Liburnia laminalis* Van D. Crescent City (Van Duzee); Belleair (Mrs. Slosson).  
*Liburnia culta* Van D. Biscayne Bay (Mrs. Slosson).  
*Liburnia puella* Van D. Crescent City, Sevenoaks (Van Duzee); Biscayne Bay, Belleair (Mrs. Slosson).  
*Liburnia basivitta* Van D. Crescent City (Van Duzee); Jacksonville (Mrs. Slosson).  
*Liburnia osborni* Van D. Estero (Van Duzee); Lakeland (Bradley).  
*Liburnia detecta* Van D. Crescent City, St. Petersburg (Van Duzee); Ormond, Biscayne Bay, Lake Worth (Mrs. Slosson); Titusville (A. M. N. H.).  
*Liburnia tuckeri* Van D. St. Petersburg (Van Duzee).  
*Liburnia foveata* Van D. Lake Worth (Mrs. Slosson).  
*Liburnia albolinosa* Fowler. Sevenoaks, Estero (Van Duzee); Titusville, LaBelle (A. M. N. H.).  
*Liburnia teapae* Fowl. Biscayne Bay (Mrs. Slosson).  
*Liburnia seminigra* Stal. Crescent City, Estero (Van Duzee); Miami (A. M. N. H.); Belleair, Ormond, (Mrs. Slosson).  
*Liburnia andromeda* Van D. Sevenoaks, Tampa (Van Duzee); Lakeland (A. M. N. H.); Biscayne Bay, Belleair (Mrs. Slosson).

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